

# Operating Instructions

## For earthing tester ET-09 and ET-09-SiL

This instrument checks the conductivity of earthing leads according to the Swiss Ordinance on Low Voltage Installations (NIV). Please make sure the testing subject is not connected with power.

### Battery installation:

1. Release the two screws on the front of the instrument.
2. Insert one 9-volt battery type LR61.
3. Insert the insulation disk between the battery and the front plate
4. Close the front again and tighten the screws.

### Measuring procedure:

1. Pull the measuring lead from the reel in the instrument and connect the end to the reference earth.
2. Insert the short measuring wire in the socket on the front.
3. Connect the other end to the test probe or telescopic antenna.
4. Walk through the building carrying the instrument, and check all the respective earth connections.

### Important:

- Stop measuring immediately if the buzzer sounds.
- An external power input > 4 V activates the red LED  
→ stop measuring immediately, because the PTC is hot. Let it cool down (for about 10 seconds) before taking any more measurements.
- Do not keep the measuring cable connected, otherwise the battery will quickly go flat with a current of 300mA.
- Maximum intermittent voltage input = 230V
- Higher voltages can damage the instruments .
- ⚠: The unit cannot be used on testing subject that is plugged in, please make sure subject is unplugged and powered off.

If you follow these rules you can make up to about 1000 measurements with a new battery.

### Technische Daten:

**Blue** LED activates; buzzer sound:  
**Green** LED activates  
**Yellow** LED activates  
**Red** LED activates

Contact resistance	<	2 Ohm
Contact resistance	<	7 Ohm
Contact resistance	<	20 Ohm
Input voltage	>	4 Volt

Protection class  
Safety certification

IP 20  
IEC / EN 61326-1  
IEC/EN 61010-1:2010



Certification TÜV-SÜD, CE

### Warranty:

All Elbro products undergo strict quality control and are guaranteed for 12 months against malfunctioning (only valid against receipt of purchase).

Elbro repairs manufacturing and material faults free of charge on products returned undamaged.

Damage due to mishandling or application of force is not covered by the warranty.